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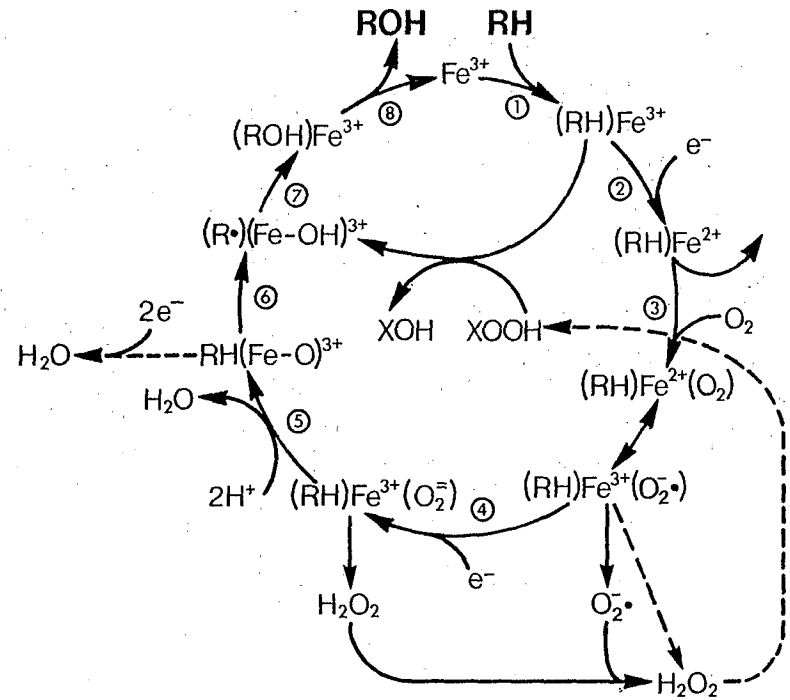
CYTOCHROME P450: ADVANCES AND PROSPECTS

A FASEB Satellite Symposium in Honor of

Professor Minor J. Coon



Atlanta Hilton and Towers
Grand Ballroom C and D
April 21, 1991

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Dr. Minor J. Coon was born in Engelwood, Colorado in 1921. He earned a Bachelor's Degree in Chemistry from the University of Colorado in 1943 and a Ph.D. in Biochemistry from the University of Illinois in 1946. His doctoral thesis, completed under the direction of Dr. William C. Rose, was concerned with the determination of the amino acid requirements in man. In 1947, he moved to the Department of Physiological Chemistry in the School of Medicine at the University of Pennsylvania where he was first an Instructor then an Assistant and Associate Professor. He married Mary Louise Newburn in 1948. In 1955, he moved to the University of Michigan Medical School as a Professor in the Department of Biological Chemistry and, in 1970, he was appointed Chairman of the Department, a position he held until 1990. In 1983, he was appointed the Victor C. Vaughan Distinguished University Professor of Biological Chemistry. Dr. Coon has received many honors and awards. These include the American Chemical Society Award in Enzyme Chemistry (1959), the Distinguished Faculty Achievement Award from the University of Michigan (1976), The William C. Rose Award in Biochemistry (1978), and the Bernard B. Brodie Award in Drug Metabolism (1980). He was elected a member of the National Academy of Sciences (1983), a Senior Member of the Institute of Medicine at the National Academy of Sciences (1987), and a Fellow of the American Association for the Advancement of Science (1988). Dr. Coon has played an important role in the academic community at the University of Michigan while also serving the scientific community by being a member of numerous editorial and advisory boards, organizing committees and review panels. Dr. Coon is one of the world's most renowned biochemists and has made contributions to a variety of other fields in medical science as well. The initial separation and reconstitution of the P450-dependent monooxygenase system is a true landmark in the P450 field. Since that time he has made many other seminal contributions on the structure and function of this complex enzyme system. In addition, Dr. Coon has trained many of the leading investigators in the field today and many of his more than 80 students and post-doctoral fellows hold key positions in universities and pharmaceutical companies. His enthusiasm and dedication to research has served as an inspiration for many scientists throughout the world. His excellent attributes as a scholar, scientist, and administrator and his many outstanding accomplishments make him an exceptional role model for others engaged in all aspects of research and administration.

CYTOCHROME P-450: ADVANCES AND PROSPECTS

9:00 **Dr. Paul Hollenberg,** Wayne State University
"Historical Perspective: Contributions of Dr. Minor J. Coon / Comparisons of Cytochrome P-450 Enzymes with Other Hemoproteins"

9:45 **Dr. Thomas Poulos,** Center for Advanced Research in Biotechnology, University of Maryland
"The Three-Dimensional Structures of Cytochrome P-450 Enzymes and Their Significance"

10:30 **Dr. Paul R. Ortiz de Montellano,** University of California - San Francisco
"Catalytic Mechanisms of Cytochrome P-450 Catalysis"

11:15 **Dr. Eric F. Johnson,** Scripps Clinic
"Analysis of the Catalytic Specificity of Cytochrome P-450 Enzymes Through Site-Directed Mutagenesis"

12:00 **Lunch**

1:30 **Dr. Yoshiaki Fuji-Kuriyama,** Tohoku University, Japan
"Regulation of Cytochrome P450IA1 Gene Expression by Polycyclic Hydrocarbons"

2:15 **Dr. Jan-Åke Gustafsson,** Karolinska Institute, Sweden
"Regulation of Rodent Cytochrome P-450 Gene Expression by Steroid Hormones"

3:00 **Dr. Michael Waterman,** University of Texas Health Sciences Center - Dallas
"Regulation of Cytochrome P-450 Enzymes Involved in Steroid Synthesis"

3:45 **Dr. F. Peter Guengerich,** Vanderbilt University
"Human Cytochrome P-450 Enzymes: Characterization and Significance / Summary of Advances and Prospects for the Future of Cytochrome P-450 Research"

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